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**Non-aqueous liquid laundry and other detergents containing nonionic surfactant and/or anionic surfactant contain bleach activator in liquid form**

Patent Assignee: HENKEL KGAA (HENK)

Inventor: NEUMANN M; RIEBE H

**Patent Family** (2 patents, 21 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update
WO 2001066685	A1	20010913	WO 2001EP2220	A	20010228	200161 B
DE 10011273	A1	20010920	DE 10011273	A	20000308	200163 E

Priority Applications (no., kind, date): DE 10011273 A 20000308

#### Patent Details

Number	Kind	Lan	Pg	Dwg	Filing Notes
WO 2001066685	A1	DE	39	0	

National Designated States,Original: JP US  
Regional Designated States,Original: AT BE CH CY DE DK ES FI FR GB GR IE  
IT LU MC NL PT SE TR

#### Alerting Abstract WO A1

NOVELTY - Non-aqueous liquid laundry and other detergents contain nonionic surfactant(s) and/or anionic surfactant(s) and bleach activator(s).

DESCRIPTION - In non-aqueous liquid laundry and other detergents containing nonionic surfactant(s) and/or anionic surfactant(s) and bleach activator(s), all the bleach activator(s) is present in liquid form.

USE - The products are liquid laundry and other detergents (claimed).

ADVANTAGE - Although liquid detergents are convenient and dissolve well, there are problems of sedimentation and decomposition of the components, e.g. it is almost impossible to incorporate a bleach system in aqueous medium. Existing non-aqueous liquid detergents contain large amounts of thickener and costly solvents that are not washing-active, whilst adding solid bleach activators causes undesirable changes in the viscosity of the liquid matrix. Using liquid bleach activators gives stable non-aqueous liquid detergents with thixotropic properties and good storage and sedimentation stability.

#### Technology Focus

INORGANIC CHEMISTRY - Preferred Bleach: Preferred bleaches include sodium perborate and sodium percarbonate.

ORGANIC CHEMISTRY - Preferred Composition: The detergent contains 0.1-40, preferably 3-30, especially 10-25 wt.% bleach activator(s), 5-80, preferably 15-80, especially 20-70 wt.% nonionic surfactant(s) and 0.1-50, preferably 1-40 wt.% anionic surfactant(s) A bleach is dispersed in the non-aqueous phase, preferably in amounts of 0.1-50, especially 2-30 wt.% with respect to the total composition.

No organic solvent is added.

Preferred Bleach Activators: The bleach activator is glyceryl triacetate, triethyl acetylcitrate, tributyl acetylcitrate and/or ethylene glycol diacetate.

**Preferred Surfactants:** Alkylbenzenesulfonates are used as anionic surfactants.

**Preferred Bleach:** Suitable bleaches include percarbamide and citrate perhydrate.

**Title Terms /Index Terms/Additional Words:** NON; AQUEOUS; LIQUID; LAUNDER; DETERGENT; CONTAIN; NONIONIC; SURFACTANT; ANION; BLEACH; ACTIVATE; FORM

#### **Class Codes**

International Classification (Main): C11D-017/00, C11D-003/395

(Additional/Secondary): C11D-001/83, C11D-003/39

File Segment: CPI

DWPI Class: D25

Manual Codes (CPI/A-M): D11-A07; D11-B01B; D11-D01; D11-D07

#### **Chemical Indexing**

Derwent Registry Numbers: 1698-U

Derwent Chemistry Resource Numbers: (Linked) 107350-USE

(Unlinked) 107350-U

#### **Key Word Indexing**

\*1\* 107350-USE

#### **Original Publication Data by Authority**

##### **Germany**

Publication No. DE 10011273 A1 (Update 200163 E)

Publication Date: 20010920

**\*\*Flussigwaschmittel mit flussigen Bleichaktivatoren\*\***

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Inventor: Riebe, Hans-Jurgen, Dr., 42697 Solingen, DE

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Language: DE

Application: DE 10011273 A 20000308 (Local application)

Original IPC: C11D-3/395(A) C11D-1/83(B)

Current IPC: C11D-3/395(A) C11D-1/83(B)

Original Abstract: Nichtwassrige flussige Wasch- oder Reinigungsmittel, die Bleichaktivatoren enthalten, weisen eine gute Lager- und Sedimentationsstabilitat auf, wenn flussige Bleichaktivatoren eingesetzt werden. Durch Einsatz flussiger Bleichaktivatoren kann sowohl der Einsatz sonstiger organischer Losungsmittel reduziert werden als auch der Aufbau strukturierter, pseudoplastischer bzw. thixotroper Flussigmatrices erreicht werden.

Claim:

- \* 1. Nichtwassriges flussiges Wasch- oder Reinigungsmittel, enthaltend nichtionische(s) Tensid(e) und/oder anionische(s) Tensid(e) und Bleichaktivator(en),

**\*\*dadurch gekennzeichnet\*\***, dass samtliche in den Mitteln enthaltenen Bleichaktivatoren in flussiger Form vorliegen.

##### **WIPO**

Publication No. WO 2001066685 A1 (Update 200161 B)

Publication Date: 20010913

**\*\*NICHT FLUSSIGWASCHMITTEL MIT FLUSSIGEN BLEICHAKTIVATOREN**  
**NON-LIQUID WASHING AGENTS HAVING LIQUID BLEACH ACTIVATORS**  
**DETERGENTS LIQUIDES NON AQUEUX A ACTIVEURS DE BLANCHIMENT LIQUIDES\*\***  
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 Nationality: DE  
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 TR  
 Original IPC: C11D-17/00(A) C11D-3/39(B)  
 Current IPC: C11D-17/00(A) C11D-3/39(B)  
 Original Abstract: Nichtwassrige flussige Wasch- oder Reinigungsmittel, die  
 Bleichaktivatoren enthalten, weisen eine gute Lager- und  
 Sedimentationsstabilitat auf, wenn flussige Bleichaktivatoren  
 eingesetzt werden. Durch Einsatz flussiger Bleichaktivatoren kann  
 sowohl der Einsatz sonstiger organischer Losungsmittel reduziert werden  
 als auch der Aufbau strukturierter, pseudoplastischer bzw. thixotroper  
 Flussigmatrices erreicht werden.  
 The invention relates to non-liquid washing and cleaning agents which  
 contain bleach activators and which exhibit a good stability in storage  
 and sedimentation stability when liquid bleach activators are used. By  
 using liquid bleach activators, both the use of other organic solvents  
 can be reduced, and the formation of structured pseudoplastic or  
 thixotropic liquid matrices can be attained.  
 L'invention concerne des detergents ou des nettoyeurs liquides non aqueux  
 contenant des activateurs de blanchiment, qui presentent une bonne  
 stabilite au stockage et a la sedimentation lorsque des activateurs de  
 blanchiment liquides sont utilises. L'utilisation d'activateurs de  
 blanchiment liquides permet a la fois de reduire l'utilisation d'autres  
 solvants organiques et d'obtenir la formation de matrices liquides  
 pseudoplastiques ou thixotropiques structurees.